

**ALUCOBOND®**

**The World's Favorite  
Aluminum Composite Material**

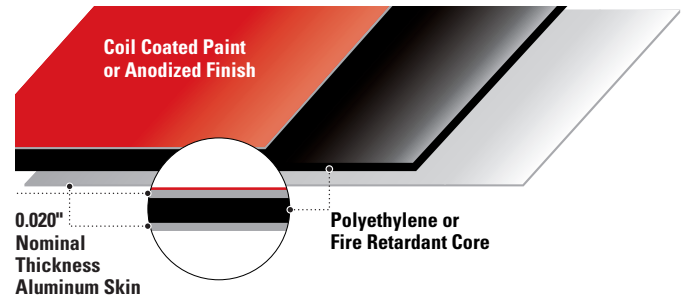
**Technical Guide**

**McCARRAN  
INTERNATIONAL  
AIRPORT**  
Las Vegas, NV

# ALUCOBOND®

## Global brand leader

Alucobond® is the original ACM (aluminum composite material) and is the preferred architectural cladding for façade and corporate identify applications. Alucobond® Material is available in a wide range of options and dimensions that can be tailored to your specific project. With its hallmark superior flatness, Alucobond® offers an extensive selection of standard and custom finishes that span the color spectrum.



### Physical Properties

#### Material Composition

- › Aluminum facings in 0.020" nominal thickness (interior and exterior to ensure flatness)
- › Polyethylene core available in 3mm, 4mm, and 6mm thicknesses (PE)
- › Proprietary fire-resistant core available in 4mm thickness only (Plus)

#### Panel Widths

- › Standard widths 50" and 62" (coil coated)
- › Standard widths 50" and 62" (anodized)
- › Custom width 40"

#### Panel Lengths

- › Standard lengths 122", 146", and 196"
- › Custom lengths up to a maximum of 360"

#### Minimum Bending Radius

- › The minimum bending radius of Alucobond® and Alucobond® Plus without routing the interior skin is 15 times the thickness of the material.

#### Available Finishes

- › PVDF, FEVE
- › Polyester
- › Modified Polyester
- › Anodized
- › Monochromatics, Micas, & Metallics
- › Natural



**UNIVERSITY OF CALIFORNIA**  
Riverside, CA



Technical Data	Alucobond			Alucobond Plus
	3mm	4mm	6mm	4mm Plus
Thickness	3mm	4mm	6mm	4mm Plus
Nominal Weight (lbs/sq.ft)	0.92	1.12	1.59	1.52
Coefficient of Expansion x10 <sup>-5</sup> (in./in.°F)	1.31	1.18	1.24	1.11
Temperature Resistance	-55° to 175° F (-50° to 80° C)			
Minimum Peel Strength	115 N mm/mm			

**Tests and Building Codes**

Guided by the most comprehensive technical support team in the industry, Alucobond® maintains constant and rigorous code compliance. From conceptual vision to finished project, the Alucobond® sales and service professionals will guide you through the process.

**North American Building Code Acceptance**

Alucobond® and Alucobond® Plus are accepted by the following code regulatory bodies:

- › IBC
- › City of New York
- › City of Los Angeles
- › Miami-Dade County Florida
- › National Building Code of Canada (1998)
- › State of Florida

**Material Code Tests**

Alucobond® has successfully passed the following tests:

- › ASTM E 84 – Surface burning characteristics
- › ASTM D1929 – Ignition properties
- › ASTM D1781 – Peel Strength
- › NFPA 285 – Intermediate scale multi-story (Alucobond® Plus only)

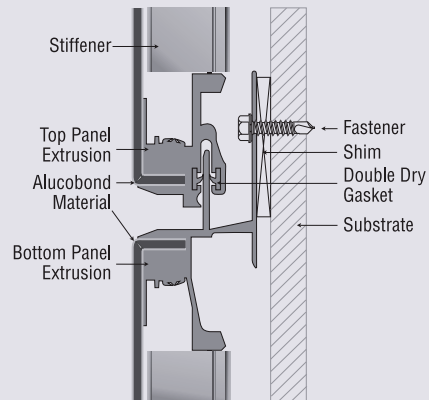
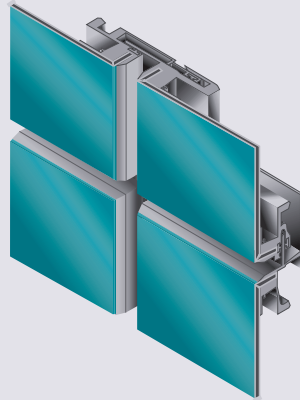


**Mamaroneck High School**  
Mamaroneck, NY

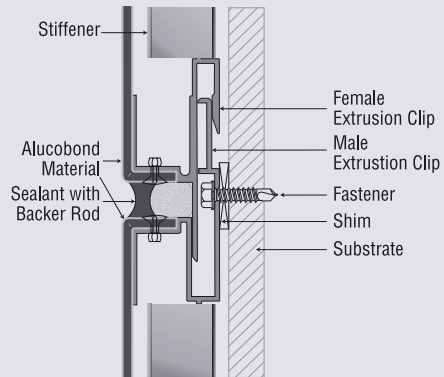
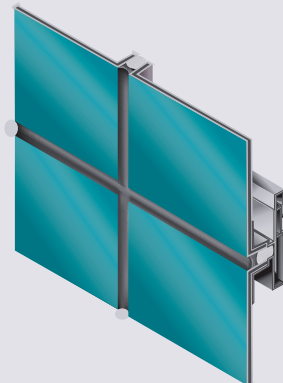
## Attachment Methods

Alcan Composites proudly partners with the most trusted, proven fabricators and installers in the metal wall panel industry. These experts will transform Alucobond® Material into the cladding system best suited for your design and application. The systems illustrated here are representative of typical attachment methods.

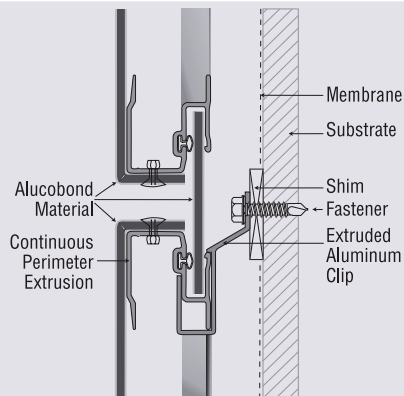
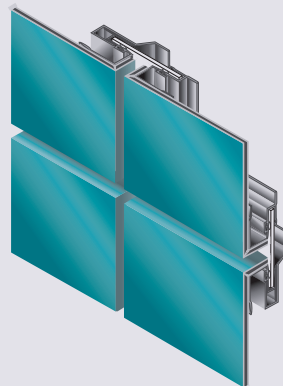
### Roof & Return Dry Seal



### Roof & Return Wet Seal



### Rain Screen



**There are three ways to contact a sales representative or get more information including samples, literature, and binders:**

- 1 Call 800.626.3365**
- 2 Complete the "Contact Us" link at [www.alucobond.com](http://www.alucobond.com)**
- 3 Email [info.usa@alcan.com](mailto:info.usa@alcan.com)**